

CLAIMS

1. Nucleic acid which comprises the sequence of the promoter for a lucerne PR protein linked to at least the sequence of a gene encoding a stilbene synthase.
- 5 2. Nucleic acid according to Claim 1, characterized in that the promoter for a lucerne PR protein is a promoter which can be induced in plants, in a tissue-specific manner or not, by a biotic or abiotic stress.
3. Nucleic acid according to ~~one of Claims 1 and 2~~,  
10 characterized in that the sequence of the promoter for a lucerne PR protein is selected from the group comprising:
- a) the IND S1 sequence,
  - b) the sequence which is of a fragment of the IND  
15 S1 sequence and which has a promoter sequence effect in plants, and
  - c) a sequence exhibiting at least 80% homology with the IND S1 sequence.
4. Nucleic acid according to Claim 3, characterized  
20 in that the sequence of the promoter for a lucerne PR protein exhibits at least 90% homology with the IND S1 sequence.
5. Nucleic acid according to Claim 3, characterized in that the sequence of the promoter for a lucerne PR  
25 protein exhibits at least 95% homology with the IND S1 sequence.
6. Nucleic acid according to ~~one of Claims 1 to 5~~, characterized in that the sequence of the gene encoding a stilbene synthase is selected from the genes isolated  
30 from groundnut, orchid, grapevine and pine genomes.
7. Nucleic acid according to Claim 6, characterized in that the sequence of the gene encoding a stilbene synthase is the sequence of a gene encoding a grapevine stilbene synthase.
- 35 8. Nucleic acid according to Claim 7, characterized in that the sequence of the gene encoding a grapevine stilbene synthase is a sequence selected from:
- a) the VST1 gene

b) the *vst2* gene.

9. System for expressing a stilbene synthase gene in plants, characterized in that it comprises at least one nucleic acid according to ~~one of Claims 1 to 8.~~

5 10. System for expressing a stilbene synthase gene in plants according to Claim 9, characterized in that the system is a vector.

11. Expression vector according to Claim 10, characterized in that the vector is a plasmid.

10 12. Expression system according to ~~one of Claims 9 to 10,~~ characterized in that it can be transferred into *Agrobacterium* strains.

13. Expression system according to ~~one of Claims 9 to 12,~~ characterized in that it can be induced in 15 plants by a biotic or abiotic stress.

14. Expression system according to Claim 13, characterized in that the biotic stress is a parasite attack.

15. Expression system according to Claim 14, characterized in that the parasite is a bacterium, a yeast, a 20 fungus or a virus.

16. Expression system according to Claim 15, characterized in that the parasite is *Botrytis cinerea* or *Plasmopora viticola*.

17. Expression system according to Claim 13, 25 characterized in that the abiotic stress is a mechanical wound.

18. Expression system according to Claim 17, characterized in that the mechanical wound is caused by an insect.

30 19. Expression system according to Claim 17, characterized in that the mechanical wound is caused by a physical phenomenon such as wind or frost.

20. Plant cell which is transformed with a system or a vector according to ~~one of Claims 9 to 19.~~

35 21. Cell according to Claim 20, characterized in that it is a grapevine cell.

22. ~~Process for obtaining a cell according to one of Claims 20 and 21, characterized in that a plant cell is~~

transformed using a microbiological method including a system or vector according to one of Claims 9 to 19.

23. Process for obtaining plants which express a stilbene synthase gene, characterized in that cells of  
5 the said plants are transformed using a system or a vector according to ~~one of Claims 9 to 19~~, the cells expressing the said gene are selected and a plant is regenerated from these cells.

24. Plant comprising an expression system according  
10 to ~~one of Claims 9 to 19~~.

25. Plant comprising cells according to ~~one of Claims 20 and 21~~.

26. Plant which is obtained by implementing a process according to ~~one of Claims 22 and 23~~.

15 27. Plant according to ~~one of Claims 24 to 26~~, characterized in that it is a plant of agricultural interest.

28. Plant according to Claim 27, characterized in that the plant is grapevine.

ADD A2

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